

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P744722

Luminaire Tested: LD4D20D010-EU4DR7020359024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR7020359024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.1 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

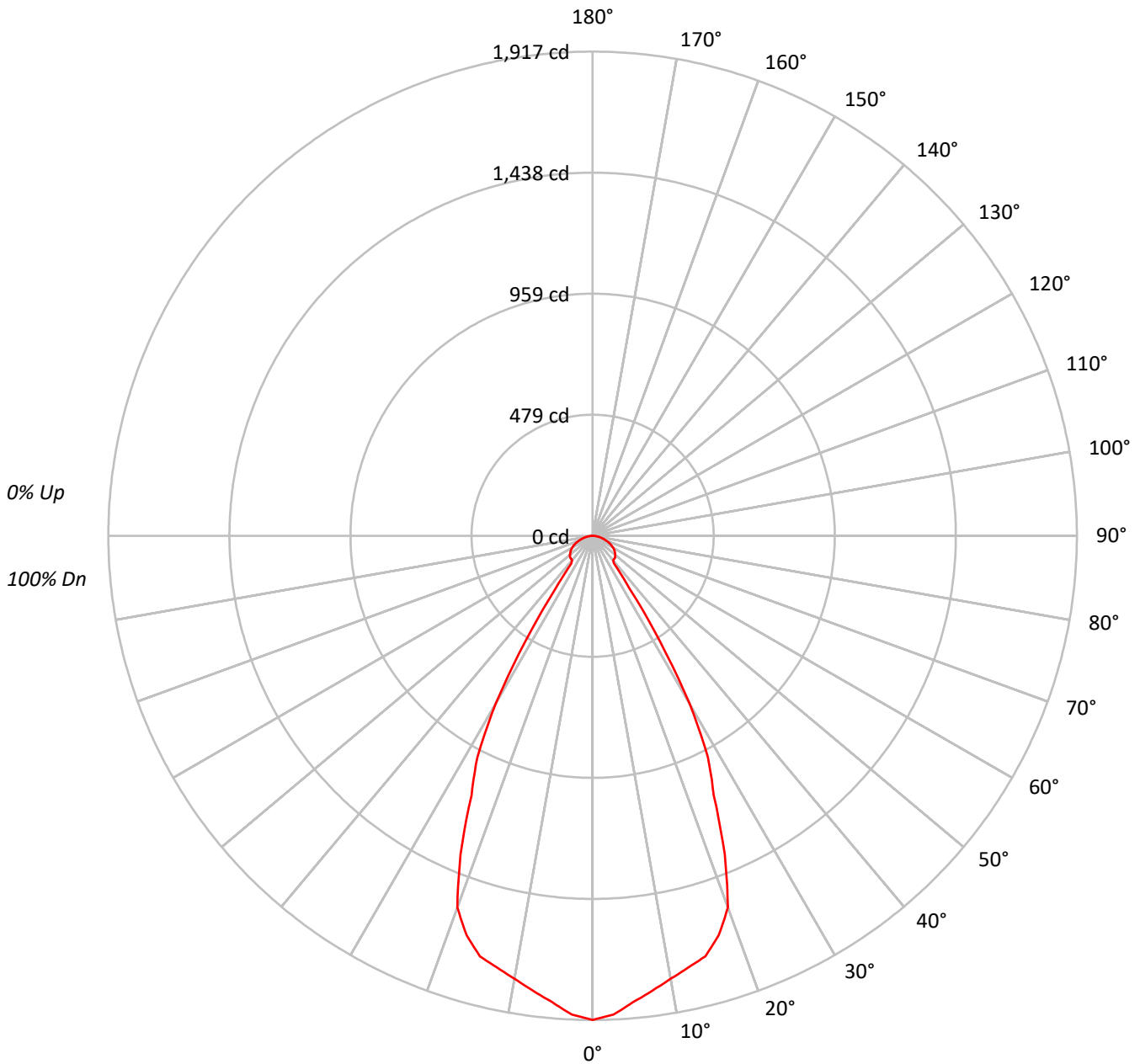


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209453
5°	203223
10°	197562
15°	194976
20°	182060
25°	136771
30°	96692
35°	34253
40°	18014
45°	19191
50°	19854
55°	20230
60°	20366
65°	19933
70°	18816
75°	17435
80°	15479
85°	12536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 20376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	10.2
10°-20°	479.4	28.1
20°-30°	528.0	31.0
30°-40°	201.7	11.8
40°-50°	95.3	5.6
50°-60°	94.7	5.6
60°-70°	75.8	4.4
70°-80°	43.6	2.6
80°-90°	11.9	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1182.2	69.3
0°-40°	1383.9	81.2
0°-60°	1573.9	92.3
0°-90°	1705.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1917	
5°	1853	175
15°	1724	479
25°	1134	528
35°	257	202
45°	124	95
55°	106	95
65°	77	76
75°	41	44
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1917.0
2.5°	1896.9
5°	1852.9
7.5°	1816.2
10°	1780.7
12.5°	1750.7
15°	1723.7
17.5°	1658.4
20°	1565.8
22.5°	1366.1
25°	1134.5
27.5°	987.7
30°	766.4
32.5°	495.0
35°	256.8
37.5°	138.7
40°	126.3
42.5°	125.4
45°	124.2
47.5°	121.4
50°	116.8
52.5°	111.7
55°	106.2
57.5°	100.2
60°	93.2
62.5°	85.3
65°	77.1
67.5°	68.0
70°	58.9
72.5°	49.8
75°	41.3
77.5°	32.5
80°	24.6
82.5°	17.3
85°	10.0
87.5°	4.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)